

SPECIFICATION

Please amend the specification as follows:

SPECIFICATION

To All Whom It May Concern:

Be it known that I, Delores D. Walker, being a citizen of the United States, residing in the City of St. Louis, County of St. Louis, and the State of Missouri, whose full mailing address is 10326 Bon Oak Drive, St. Louis, Missouri, 63136, have invented new and useful improvements in an:

AUTOMOBILE WINDSHIELD UMBRELLA

BACKGROUND OF THE INVENTION

The present invention relates to an automotive accessory in general and more particularly to an umbrella like windshield covering used device to protect the vision of a driver while driving in severe heavy rainstorms, hail, sleet, or the like. This ~~windshield umbrella cover~~ device also shades an automobile windshield from the sun.

DESCRIPTION OF THE PRIOR ART

The patent to Nakayama, Pat. No. 6,425,623 shows a retractable visor for an automobile windshield. The visor housing mounts to a roof and occupies nearly the entire roof. In one embodiment, the visor has a spring at the rear and a cable system at the front to extend the visor. In another embodiment, the visor winds upon a roll attached to the roof above the windshield and unrolls by pulling towards stays upon the hood of the automobile. Another embodiment shows the visor extending downward from a housing. The visor and housing have complementary arcuate shapes. In contrast, the present invention has an umbrella that extends upward and above the windshield of an automobile. Unlike '623, the present invention permits a sunroof in an embodiment. The present invention also covers a minor portion of the windshield unlike the '623 patent.

SUMMARY OF THE INVENTION

The windshield umbrella can be used on any motor vehicle such as a car, van, bus, or the like. The present invention acts as a safety device to improve the visibility for the motorist during heavy rainstorms or inclement weather. In use, the umbrella of the present invention protects the windshield from excessive rain, hail, sleet and the like. The present invention provides a clearer view of the road for a motorist and lessens the risk of accidents due to poor visibility. Further, the present invention lowers the need for motorists to pull off the road due to impaired vision during inclement weather.

The present invention joins to the roof of a motor vehicle or automobile as either a permanent device or a temporary device. The permanent device retracts the umbrella into a harness upon command of the motorist. The temporary, or self-mounting, device mounts to the roof upon brackets and retracts as desired by the motorist. In good weather, the motorist can retract the umbrella into the harness of the permanent device or remove the temporary device for storage within an automobile.

Further, the umbrella resists wind encountered during operation of an automobile. However, the present invention does not replace windshield wipers. Windshield wipers accommodate ordinary rain as normal flow. Windshield wipers in conjunction with the present invention accommodate heavier precipitation, or a deluge. In general, the present invention reduces vision impairment of motorists caused by excessive rainfall upon a windshield during downpours, thunderstorms, hurricanes, and the like.

There has thus been outlined, rather broadly, the more important features of the invention in order that the detailed description thereof that follows may be better understood and that the present contribution to the art may be better appreciated. Additional features of the invention will be described hereinafter and which will form the subject matter of the claims attached.

Numerous objects, features and advantages of the present invention will be readily apparent to those of ordinary skill in the art upon a reading of the following detailed description of the presently preferred, but nonetheless illustrative, embodiment of the present invention when taken in conjunction with the accompanying drawings. Before explaining the current embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and to the arrangements of the components set forth in the following description or illustrated in the drawings. The invention is capable of other embodiments and of being practiced and carried out in various ways. Also, the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting.

One object of the present invention is to provide a new and improved automobile windshield umbrella.

Another object is to provide such an automobile windshield umbrella that is easy to assemble and to connect to an automobile roof.

A further object is to provide such an automobile windshield umbrella that retracts and extends as desired by a motorist or as warranted by the weather.

A still further object is to provide such an automobile windshield umbrella that resists the wind and aerodynamic forces.

These together with other objects of the invention, along with the various features of novelty that characterize the invention, are pointed out with particularity in the claims annexed to and forming a part of this disclosure. For a better understanding of the invention, its operating advantages and the specific objects attained by its uses, reference should be had to the accompanying drawings and descriptive matter in which there is illustrated a preferred embodiment of the invention.

~~Brief Description of Drawings~~

~~Permanent Remote Unit~~

~~As a permanent fixture the windshield umbrella will be a remote operated, retractable unit with a roof harness on top of the car, which will house the umbrella. The unit will also have an optional sunroof component, see fig. 1f & 1g (top view). Retraction is controlled electrically via steering column or dashboard access. Fig. 1h shows windshield umbrella in retracted position. The permanent unit will extend the length of the roof of the car to allow an optional sunroof see fig 1h (side view), fig 1f (top view). The umbrella will be as wide as the windshield of the automobile to ensure complete cover and blockage of rain downpours, sleet, etc., see fig. 1e. It will extend out and over the windshield at least 10-12 inches. The umbrella covering will curve upward about 2 1/2 inches to force heavy rain to push backward and off to the side of the windshield and away~~

~~from the view of the driver, see fig. 1c. Fig. 1c shows view of windshield umbrella when in use or extended position or permanent or temporary fixture.~~

~~Self-Mounting Unit~~

~~As a temporary fixture it will be a completely removable self-mounted unit in which the umbrella is manually mounted into the mounting brackets, then pulled out of the harness or pushed back into the harness, and manually detached and stored in trunk when not in use. See fig. 1a 1b 1c. Fig. 1d is a top view of the windshield umbrella. Fig. 1h is a side view of the windshield umbrella in a retracted position for the permanent or temporary fixture.~~

~~The umbrella covering will be as wide as the windshield to ensure complete coverage and blockage of rain downpours, see fig 1. It will extend out and over the windshield at least 10-12 inches. The umbrella covering will curve upward about 2 1/2 inches to force heavy rain to push onto the back of the automobile, and off to the side of the windshield and way from the view of the driver. See fig. 1c.~~

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 shows a front view of an automobile with the temporary embodiment of the present invention installed;

Fig. 2 shows a top view of the roof of an automobile with the temporary embodiment;

Fig. 3 illustrates an exploded view of the components of the present invention;

Fig. 4 describes a side view of an automobile with the temporary embodiment of the present invention fully extended;

Fig. 5 shows a front view of an automobile though with the permanent embodiment of the present invention installed;

Fig. 6 reveals the top view of the roof of an automobile with the permanent embodiment;

Fig. 7 illustrates the components of the permanent embodiment of the present invention; and,

Fig. 8 shows a side view of an automobile with the permanent embodiment of the present invention installed.

The same reference numerals refer to the same parts throughout the various figures.

DESCRIPTION OF THE PREFERRED EMBODIMENT

~~(Manufacturing Specifications) Sleeve/Shield:~~

~~Lightweight, fibrous polymer composites reinforced with durable steel frame tested for shearing strength. Brackets: Non-oxidizing alloy.~~

~~This windshield umbrella covering can also be used as an automobile shade. As a shade it will reduce the amount of the sun's heat and ultraviolet rays entering through the windshield. This windshield umbrella can be made onto the top of the automobile as a permanent fixture. It can be housed in the harness on top of the roof of the automobile and then release electrically via steering column or dashboard access when flash floods or inclement weather occurs. The umbrella can be hidden back into the harness when not in use, see fig. 1h of the permanent remote unit. The windshield umbrella can also be attached manually by mounting the chassis or harness into the mounting brackets on the top of the automobile and released or retracted manually, see fig. 1b & 1c. The self-mounting unit can be removed and stored in the trunk of an automobile when not in use.~~

Self-Mounting Unit

~~As a temporary fixture it will be a completely removable self-mounted unit in which the umbrella is manually mounted into the mounting brackets, then pulled out of the harness or pushed back into the harness, and manually detached and stored in trunk when not in use. See fig. 1a 1b 1c. Fig. 1d is a top view of the windshield umbrella. Fig. 1h is a side view of the windshield umbrella in a retracted position for the permanent or temporary fixture.~~

~~The umbrella covering will be as wide as the windshield to ensure complete coverage and blockage of rain downpours, see fig 1. It will extend out and over the windshield at least 10-12 inches. The umbrella covering will curve upward about 2 ½ inches to force heavy rain to push onto the back of the automobile, and off to the side of the windshield and way from the view of the driver. See fig. 1c.~~

Permanent Remote Unit

In the preferred embodiment as a permanent fixture device, the ~~windshield umbrella present invention~~ 1 will be a remote-operated, retractable unit with a ~~roof-harness~~ 2 on top of ~~the~~ a car 3, which will house the umbrella 7 as shown in FIG. 5. The ~~unit present invention~~ 1 will also have an optional sunroof 4 as seen in FIG. 6. component, see fig. 1f & 1g (top view). Retraction is controlled electrically via steering column or dashboard access 3a as shown in FIG. 8. ~~Fig. 1h~~ FIG. 8 then shows the ~~windshield umbrella present invention~~ 1 in the retracted position 8. The ~~permanent unit preferred embodiment~~ will extend the length of the roof 5 as shown in FIG. 6. ~~of the car to allow an optional sunroof see fig 1h (side view), fig 1f (top view).~~ The umbrella 7 will be as wide as the windshield 6 ~~of the automobile to ensure complete~~ completely cover and blockage of rain downpours, sleet, or the like as shown in FIGS. 5 and 6. etc., see fig. 1c. It will extend out and over the windshield 6 at least 10-12 inches as shown in FIG. 8. The umbrella 7 ~~covering~~ will curve upward about 2 ½ inches to force heavy rain ~~to push~~ backward and off to the side of the windshield 6 and away from the view of the motorist driver as shown in FIG. 7. , see fig. 1c. ~~FIG. 7 then Fig. 1c shows view of the~~ windshield umbrella when in use or the extended position 9. ~~or permanent or temporary fixture.~~

Self-Mounting Unit

For an alternate embodiment as a temporary fixture device, the windshield umbrella 1 ~~it~~ will be a completely removable ~~self-mounted~~ unit. ~~in which~~ The umbrella 7 is manually mounted into the mounting brackets 10 as shown in FIG.

3, then pulled out of, or extended from, the harness or pushed, or retracted, back into the harness, and manually detached and stored in trunk when not in use as shown in FIG. 1. ~~See fig. 1a 1b 1c. Fig. 1d~~ The windshield umbrella 1 can also be attached manually by mounting the harness 2 into the brackets 10 on the roof 5 of the automobile 3 as shown in FIGS. 3 and 4. FIG. 2 is a top view of the windshield umbrella 1. Fig. 1h FIG. 4 is a side view of the windshield umbrella 1 in an extended ~~retracted~~ position for the ~~permanent or temporary fixture~~ device.

The umbrella 7 ~~covering~~ will be as wide as the windshield 6 to ~~ensure complete~~ completely cover ~~coverage~~ and blockage of rain downpours as shown in FIGS. 1 and 2. ~~see fig 4.~~ It will extend out and over the windshield 6 at least 10-12 inches. The umbrella 7 ~~covering~~ will curve upward about 2 ½ inches to force heavy rain to ~~push~~ onto the back of the automobile, ~~and off~~ to the side of the windshield and ~~way~~ away from the view of the driver as shown in FIG. 3. See fig. 1c.

This windshield umbrella 1 ~~covering~~ can also be used as ~~an automobile~~ a sun shade. As a sun shade it will reduce the amount of ~~the sun's~~ heat and ultraviolet ~~rays~~ light entering through the windshield 6 as describe in FIG. 4. ~~This windshield umbrella can be made onto the top of the automobile as a permanent fixture. It can be housed in the harness on top of the roof of the automobile and then release released electrically via steering column or dashboard access when flash floods or inclement weather occurs. The umbrella can be hidden back retracted into the harness when not in use, see fig. 1h of the permanent remote unit. The windshield umbrella can also be attached manually by installing mounting the chassis or harness into the mounting brackets on the top roof of the automobile and released or retracted manually, see fig. 1b & 1c. The self mounting unit can be removed and stored in the trunk of an automobile when not in use.~~

~~(Manufacturing Specifications) Sleeve/Shield:~~

The automobile windshield umbrella and its component parts are constructed of but not limited to, lightweight, fibrous polymer composites

reinforced with a durable steel frame of high tested for shearing shear strength,
~~Brackets:~~ and non-oxidizing alloy brackets.

Self-Mounting Unit

~~As a temporary fixture it will be a completely removable self mounted unit in which the umbrella is manually mounted into the mounting brackets, then pulled out of the harness or pushed back into the harness, and manually detached and stored in trunk when not in use. See fig. 1a 1b 1c. Fig. 1d is a top view of the windshield umbrella. Fig. 1h is a side view of the windshield umbrella in a retracted position for the permanent or temporary fixture.~~

~~The umbrella covering will be as wide as the windshield to ensure complete coverage and blockage of rain downpours, see fig 1. It will extend out and over the windshield at least 10-12 inches. The umbrella covering will curve upward about 2 1/2 inches to force heavy rain to push onto the back of the automobile, and off to the side of the windshield and way from the view of the driver. See fig. 1e.~~

From the aforementioned description, an automobile windshield umbrella has been described. The windshield umbrella is uniquely capable of diverting heavy rain from a windshield of an automobile. The windshield umbrella and its various components may be manufactured from many materials including but not limited to polymers, high density polyethylene HDPE, polypropylene PP, polyvinyl chloride PVC, nylon, ferrous and non-ferrous metals, their alloys, and composites.

As such, those skilled in the art will appreciate that the conception, upon which this disclosure is based, may readily be utilized as a basis for the designing of other structures, methods and systems for carrying out the several purposes of the present invention. Therefore, the claims include such equivalent constructions insofar as they do not depart from the spirit and the scope of the present invention.